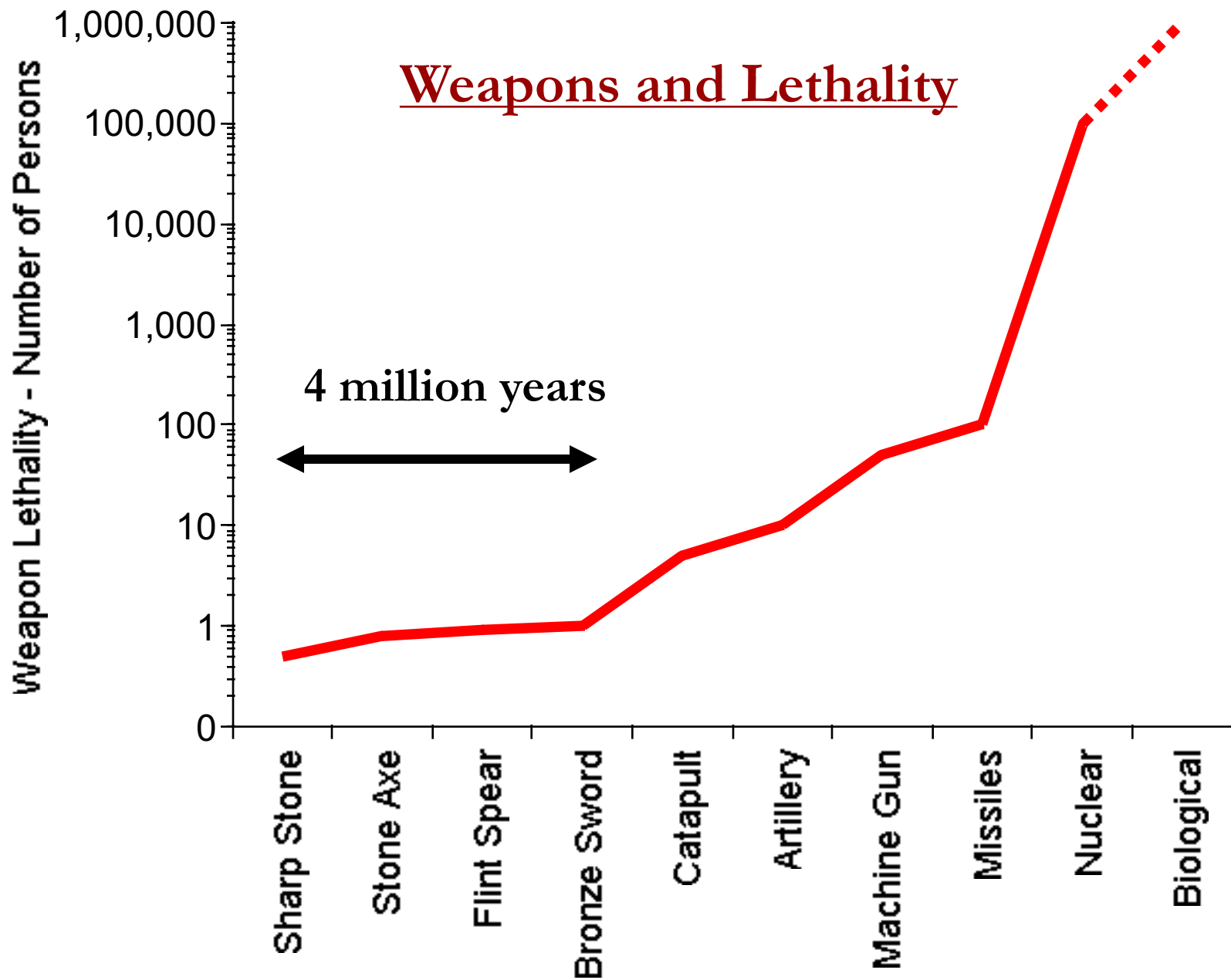


Development of Stone Age Weapons

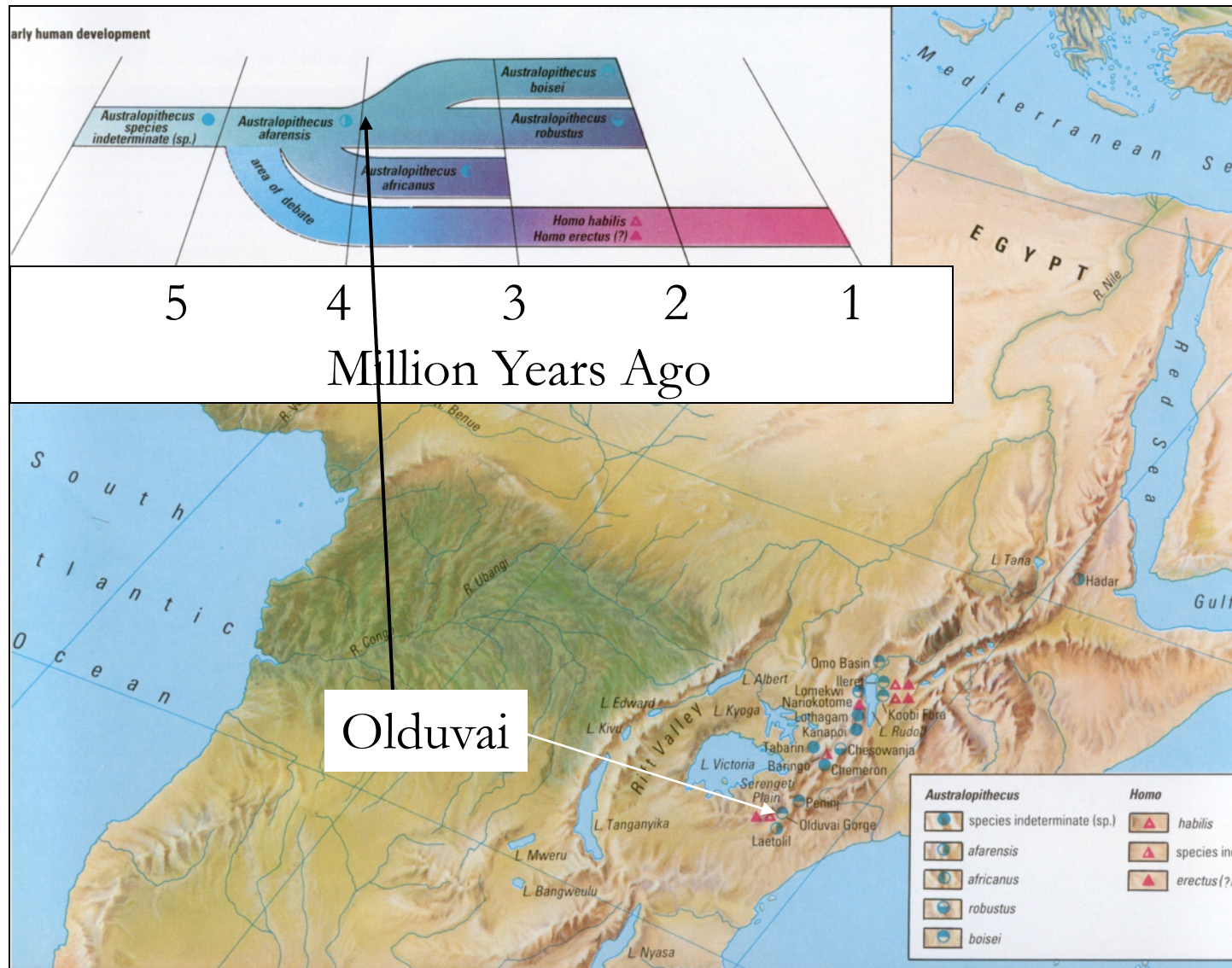
Paul A. Strassmann <paul@strassmann.com>

Talk to Troop #70, Boy Scouts of America, New Canaan, CT.

November 8, 2000



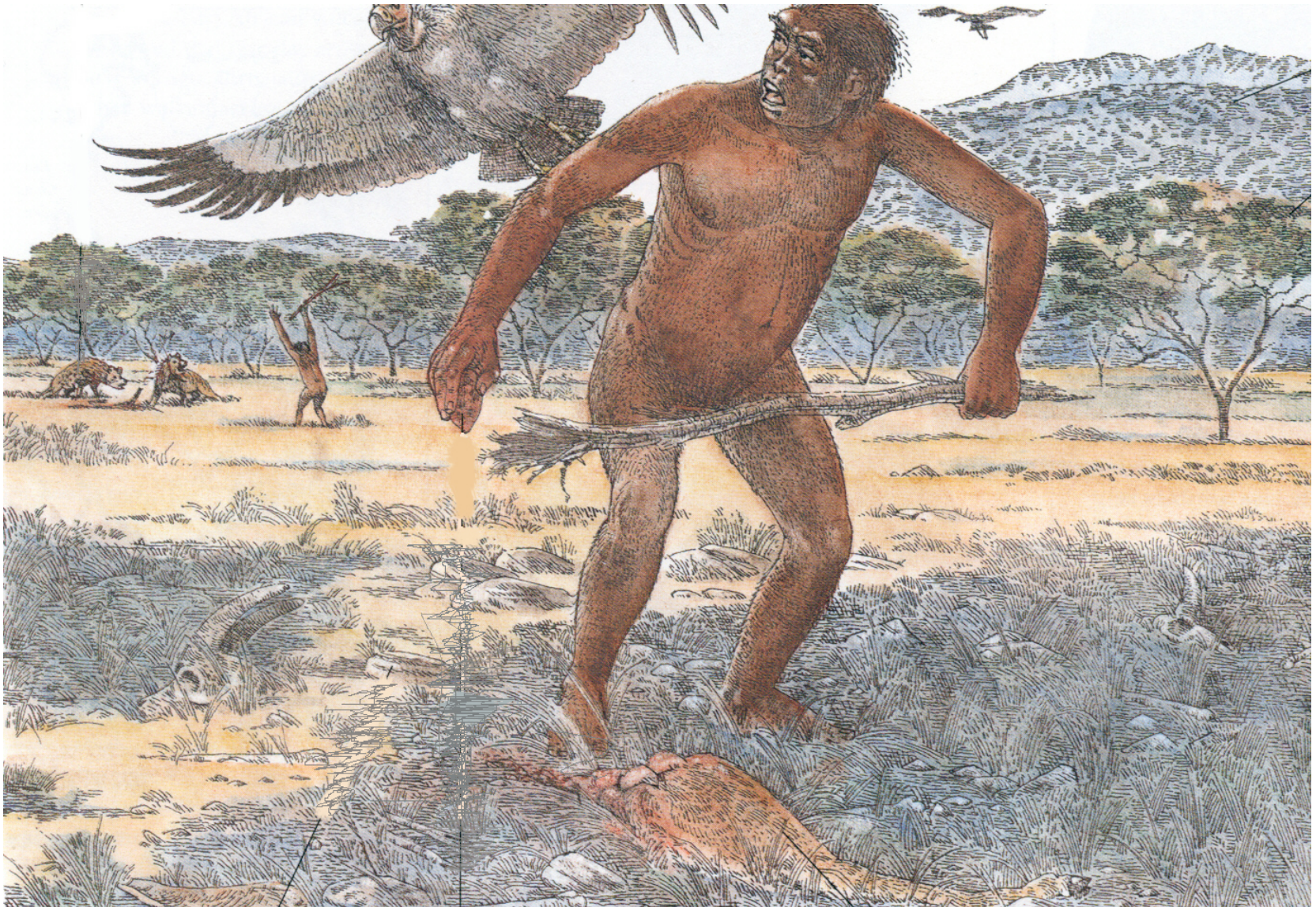
Origins of Mankind



Earliest Known Artifact – Olduvai cca. 4 million years ago



Anthropologist's Concept Drawing of Olduvai Man



Neanderthal Tools – 100,000 to 35,000 year ago



Flake



Chopper



Hand ax for general cutting and chopping



Sidescraper, possibly for preparing hides



Blade (top),
backed blade (center),
and burin (bottom)



Diskoid



Point

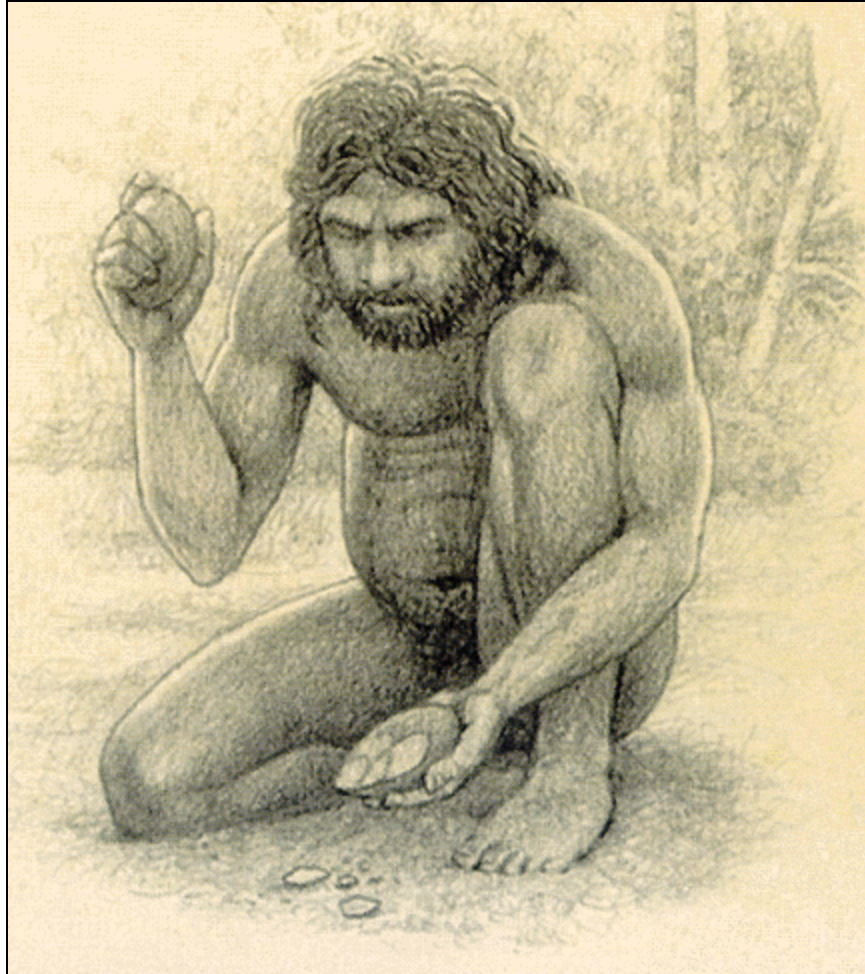


Endscraper

NEANDERTHAL TOOLKIT

Whereas *Homo erectus* made tools largely as necessary, *H. sapiens* made a range of implements for a variety of specialized tasks, as shown by this early “toolkit.”

Neanderthal Tool Maker



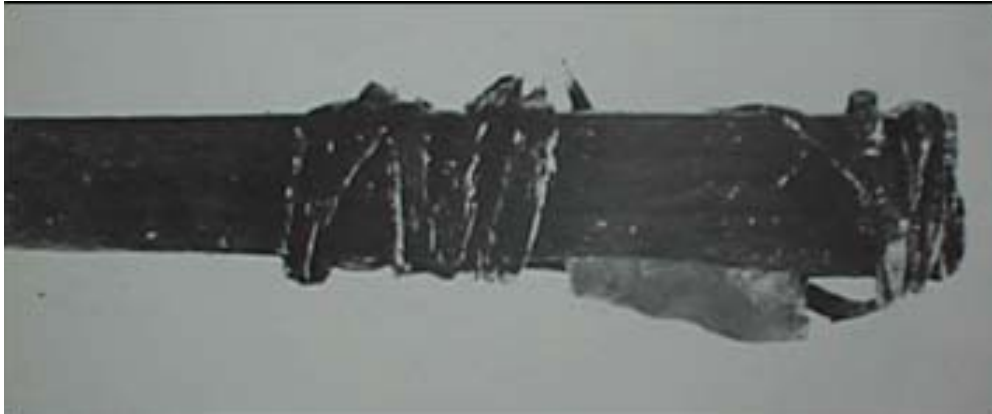
Flintstone Cutting Tool – cca 50,000 years ago



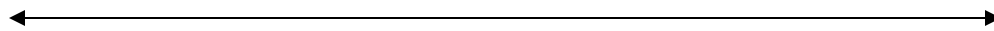
Flint Skin Scraper & Knife – Jericho, cca.25,000 years ago



Stone Ax: Archeological Find and Modern Reproduction



Basalt Axe – Egypt – cca. 12,000 BC



3 in

Basalt Axe – Side View – Egyptian, cca 12,000 BC



Battle Axe – Probably Persian, 10,000 years ago



Bow Drill For Making Fire and Grinding Holes into Stone



Hematite Mace Head – Upper Egypt-Sudan, cca. 8000 BC



2.5 in

Front View of Hematite Mace Head



Spear Heads and Attachment to Lance with Sinews



Hunter with Stone Spear Head



Bronze Spearhead – Babylonian, cca. 600 BC



Side View of Babylonian Bronze Spearhead



Assyrian Swords – CCA 550 B.C.



Chinese Bronze Battle Axe – About 300 B.C.



Top View of Mass Produced Bronze Battle Ax – 300 B.C.



Babylonian Cavalry Sword – Probably 350 B.C.



Settlement of America



Examples of Early American Tools – 25,000 to 10,000 old



Flint Arrowhead – 25,000 to 10,000 years old



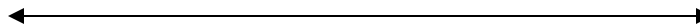
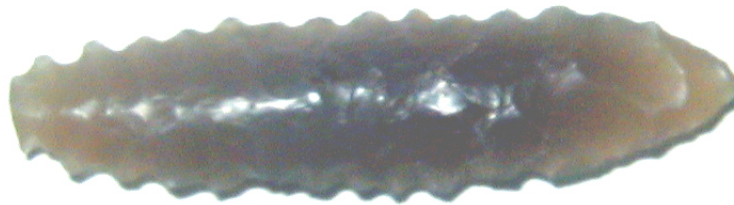
Flintstone Knife in Deer Handle – Early American (Reproduction)



Edge View of Flint Knife



Serrated Spearheads – NorthWest America, cc. 5,000 BC



1.2 inches

Arrowheads



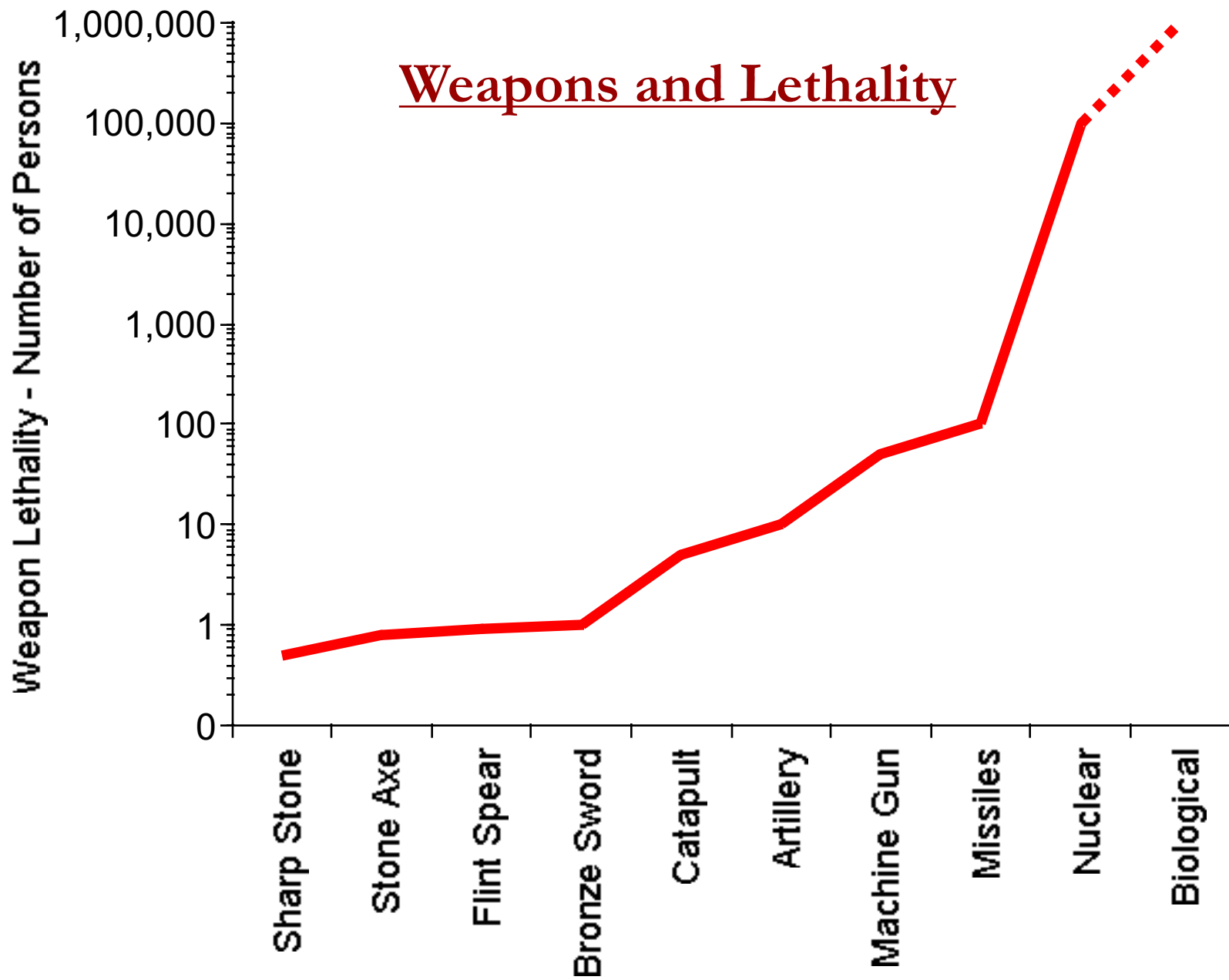
American Indian
Arrowhead – 16th Century A.D.

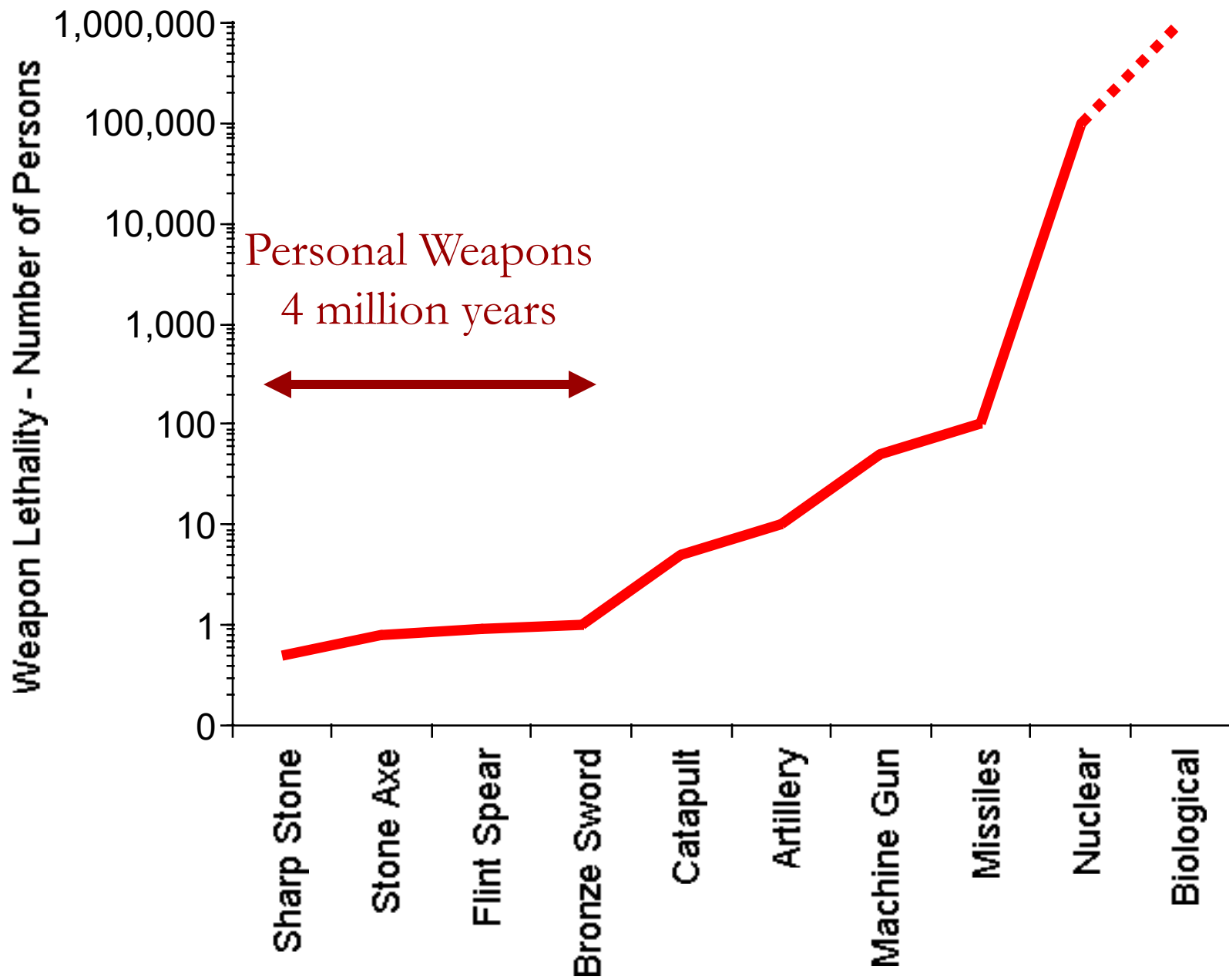


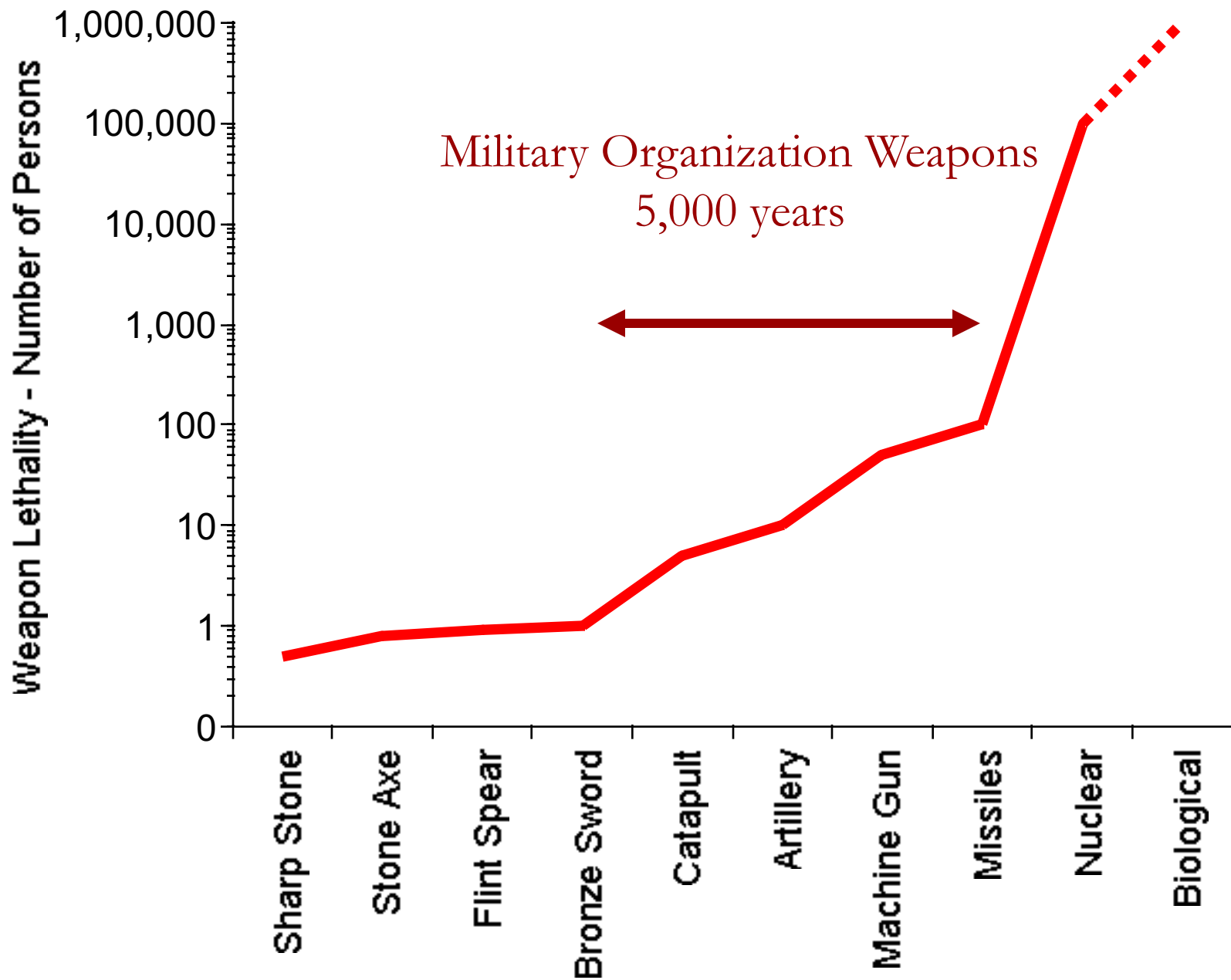
Roman Arrowhead
Gaul – cca. 200 A.D.

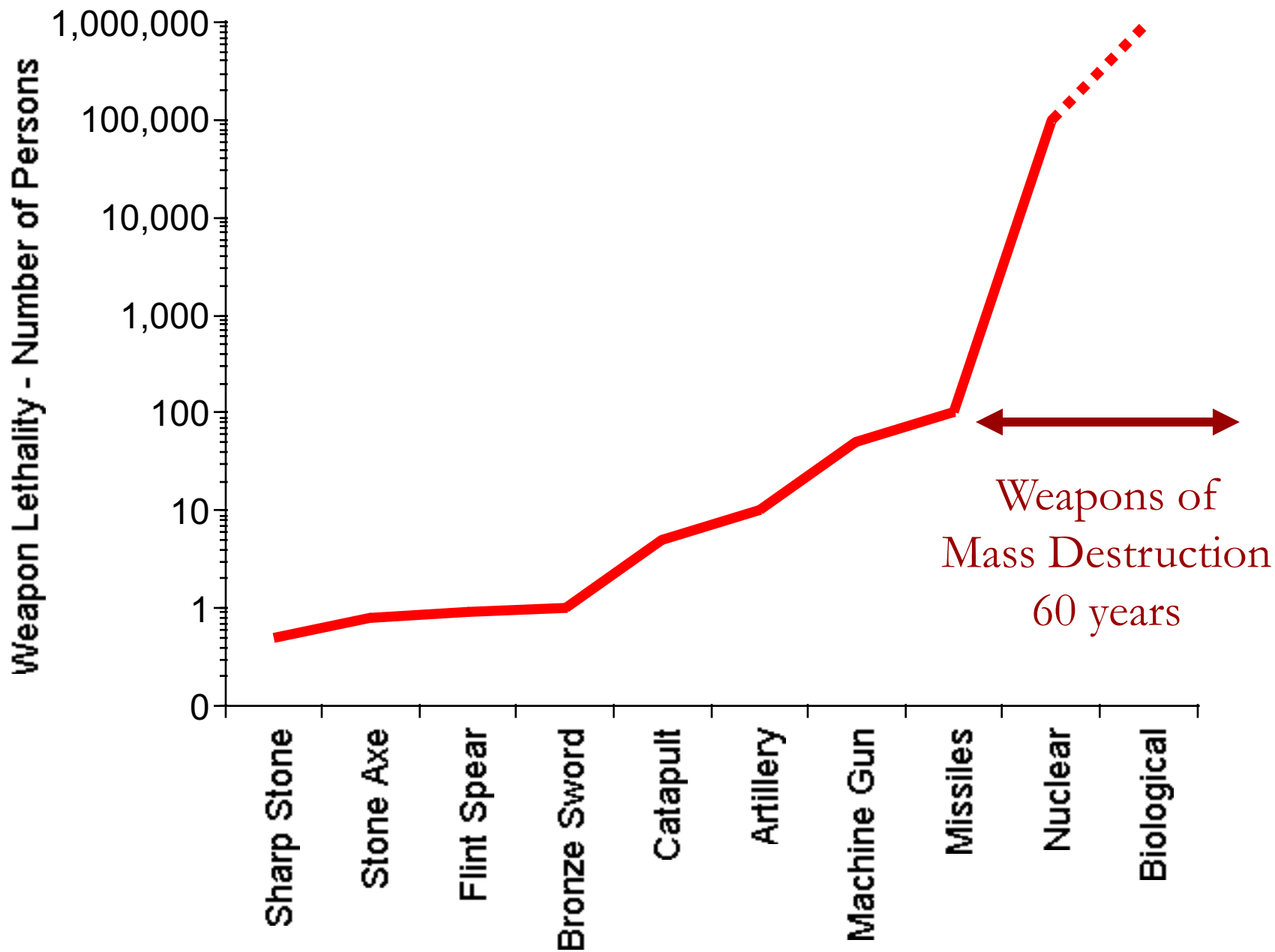


Top view
Roman Arrowhead









Lesson

- **This is a reminder about the long and precarious path of evolution.**
- **This is to bring an awareness that the nature of war has now changed and the life in the USA will never be the same again.**